

Title (en)  
TRANSMISSION LINE RESONATOR COUPLING

Title (de)  
ÜBERTRAGUNGSLEITUNGSRESONATORKOPPLUNG

Title (fr)  
COUPLAGE DE RÉSONATEUR DE LIGNE DE TRANSMISSION

Publication  
**EP 3724827 A1 20201021 (EN)**

Application  
**EP 17826655 A 20171215**

Priority  
US 2017066759 W 20171215

Abstract (en)  
[origin: WO2019117954A1] An apparatus includes: a transmission line resonator; and multiple resonators coupled to the transmission line resonator, in which each resonator of the multiple resonators is coupled to the transmission line resonator at a different position X along a length of the transmission line resonator, and in which, for each resonator of the multiple resonators, a coupling position Y along a length of the resonator is selected such that, upon application of a source potential to the resonator, a standing wave established in the resonator is impedance and phase matched to a standing wave established in the transmission line resonator.

IPC 8 full level  
**G06N 99/00** (2019.01)

CPC (source: EP US)  
**G06N 10/00** (2018.12 - US); **G06N 10/40** (2022.01 - EP); **G06N 99/00** (2013.01 - US); **H01B 12/00** (2013.01 - US); **H01P 1/20381** (2013.01 - EP); **H01P 7/08** (2013.01 - EP US); **H03H 7/38** (2013.01 - US)

Citation (search report)  
See references of WO 2019117954A1

Designated contracting state (EPC)  
AL AT BE BG CH CY CZ DE DK EE ES FI FR GB GR HR HU IE IS IT LI LT LU LV MC MK MT NL NO PL PT RO RS SE SI SK SM TR

Designated extension state (EPC)  
BA ME

DOCDB simple family (publication)  
**WO 2019117954 A1 20190620**; AU 2017443043 A1 20200702; AU 2017443043 B2 20211111; CA 3085827 A1 20190620; CA 3085827 C 20221004; CN 111465947 A 20200728; CN 111465947 B 20231205; EP 3724827 A1 20201021; US 11271280 B2 20220308; US 2020403289 A1 20201224

DOCDB simple family (application)  
**US 2017066759 W 20171215**; AU 2017443043 A 20171215; CA 3085827 A 20171215; CN 201780097734 A 20171215; EP 17826655 A 20171215; US 201716772496 A 20171215